

LOAD-ADJUSTABLE SURFACE ACOUSTIC WAVE ACTUATOR ARRANGEMENT

ABSTRACT OF THE DISCLOSURE

- 5 A load-adjustable SAW (Surface Acoustic Wave) actuator arrangement includes a platform having two sliding bearings symmetrically disposed at two sides; a SAW actuator disposed in the platform between the sliding bearings for producing a surface acoustic wave at the top surface thereof, a slider disposed inside the platform and movable by the SAW actuator along the sliding bearings, and a support structure.
- 10 The slider has a pressure bearing structure disposed in contact with the top surface of the SAW actuator and two positioning portions respectively supported on the sliding bearings. The support structure applies a predetermined force to the slider subject to the load carried on the slider, keeping the contact pressure between the slider and the SAW actuator about a constant value.